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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/554,236	10/20/2005	Lucy M. MacGregor	DYOUP0300US	7953	
25000 TO DOUSSELLE & SKLAR, LLP 1621 BUCLID AVENUE NINETEENTH FLOOR CLEVELAND, OH 44 II 5			EXAM	EXAMINER	
			AURORA, REENA		
			ART UNIT	PAPER NUMBER	
	,		2862		
			MAIL DATE	DELIVERY MODE	
			03/30/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/554,236 MACGREGOR ET AL Office Action Summary Examiner Art Unit Reena Aurora 2862 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 12/04/08. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1 - 15 and 20 - 25 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) ☐ Claim(s) 1 - 11 and 20 - 25 is/are allowed. 6) Claim(s) 12 - 15 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Imformation Disclosure Statement(s) (PTC/S5/08)
 Paper No(s)/Mail Date ______.

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

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DETAILED ACTION

This communication is in response to amendment received on 12/04/08.

Claims 1 – 15 and 20 – 25 are presented for examination.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 12 – 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Payton et al. (5,955,884) in view of Green et al. (7,383,132).

As to claims 12 – 15, Payton et al. (hereinafter Payton) discloses a transient electromagnetic apparatus comprising deploying a horizontal electric dipole (HED) transmitter (fig. 4, col. 1, lines 14 - 16) and at least one receiver, the receiver including a vertical electric dipole (VED) detector (fig. 5); and collecting from the at least one VED detector (E sub z) VED response data induced by the HED transmitter (E sub x or E sub y). Payton fails to disclose deploying at or above the seafloor a horizontal electric dipole (HED) transmitter and at least one receiver. However, Green et al. (hereinafter Green) discloses deploying receiver instruments on the earth's surface, on the seafloor, in the air or inside borehole (col. 1, lines 21 - 24). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device of Payton in view of the teachings of Green by deploying receiver

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instruments on the earth's surface, on the seafloor, in the air or inside borehole based on where magnetic fields are being measured.

Allowable Subject Matter

The following is a statement of reasons for the indication of allowable subject matter: As to claims 1 – 11 and 20 - 25, the prior art fails to show providing vertical electric dipole (VED) response data obtained by at least one VED detector detecting a signal from a horizontal electric dipole (HED) transmitter; providing background data specific to the area being surveyed; and comparing the VED response data with the background data to obtain difference data sensitive to the presence of a subterranean hydrocarbon reservoir.

Response to Arguments

Applicant's arguments with respect to claims 1 – 11 and 20 - 25 have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Reena Aurora whose telephone number is 571-272-2263. The examiner can normally be reached on Monday - Friday, 7:00 - 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, P. Assouad can be reached on 571-272-2210. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Reena Aurora

/Reena Aurora/ Primary Examiner, Art Unit 2862